

Recovery Plan Action Status

Plan Name: Bayou Darter

Plan Status: Final Revision 1

Plan Date: 10-Jul-90

Lead Agency: USFWS

Lead Office: Mississippi Ecological Services Field Office

(601)

965-4900)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bayou darter (Etheostoma rubrum)	2	1	Monitor average habitat area	Ongoing Not Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Management: Habitat Maintenance and Manipulation, Management: Land Use, Research: Habitat Requirements, Research: Habitat Status	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Repeat once every 5 years
Bayou darter (Etheostoma rubrum)	3	10	Identify sources of degradation	Ongoing Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Repeat once every 5 years
Bayou darter (Etheostoma rubrum)	2	11	Study fluvial geographic processes	Ongoing Current	Prior to FY 1995		U.S. Army Corps of Engineers, Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement, Mississippi Bureau of Geology, Mississippi Bureau of Pollution Control	Research, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Other Information	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	

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Bayou darter (Etheostoma rubrum)	2	12	Prevent further headcutting	Ongoing Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Acquisition: Easement, Acquisition: Management Agreement, Acquisition: Other, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Habitat Status, Research: Management Techniques, Research: Other Information	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Costs to be determined
Bayou darter (Etheostoma rubrum)	3	13	Establish and implement SCS plan to reduce sediment loading	Ongoing Not Current	Prior to FY 1995		Soil Conservation Service , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Management: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Regulations, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Normal operations costs

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Bayou darter (Etheostoma rubrum)	2	14	Establish wooded buffer zone	Ongoing Not Current	Prior to FY 1995		The Nature Conservancy, Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Acquisition: Easement, Acquisition: Management Agreement, Management: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Normal operations costs
Bayou darter (Etheostoma rubrum)	3	15	Implement soil conservation measures	Ongoing Current	Prior to FY 1995		Soil Conservation Service , Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Volunteer	Normal operations costs
Bayou darter (Etheostoma rubrum)	3	16	Identify drainage areas	Ongoing Current	Prior to FY 1995		Soil Conservation Service , Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research: Other Information	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Volunteer	Normal operations costs

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Bayou darter (Etheostoma rubrum)	3	17	Ensure sand and gravel operations comply with State and Federal regulations	Ongoing Current	Prior to FY 1995		U.S. Army Corps of Engineers, Mississippi Department of Environmental Quality, Environmental Protection Agency , Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement, Mississippi Bureau of Geology, Mississippi Bureau of Pollution Control	Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Volunteer	Normal operations costs
Bayou darter (Etheostoma rubrum)	3	18	Obtain cooperative agreement to reduce erosion from highways	Unknown	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement, Board of Supervisors, Copiah County, Board of Supervisors, Lincoln County, Board of Supervisors, Claiborne County	Management: Other, Management: Planning, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Normal operations costs
Bayou darter (Etheostoma rubrum)	3	19	Legislation for buffer zones and easements	Ongoing Not Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Acquisition, Acquisition: Easement, Acquisition: Exchange, Acquisition: Fee Title, Acquisition: General, Acquisition: Lease, Acquisition: Management Agreement, Acquisition: Other, Acquisition: Withdrawal	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Normal operations costs

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Bayou darter (Etheostoma rubrum)	2	2	Monitor population density	Ongoing Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research, Research: Competition, Research: Demographic Studies, Research: Disease, Research: General, Research: Migration, Research: Other Information, Research: Population Surveys, Research: Predation, Research: Taxonomic Studies	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Repeat once every 5 years
Bayou darter (Etheostoma rubrum)	3	20	Protection measures for essential darter habitat	Ongoing Not Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Acquisition, Acquisition: Other, Management, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Other, Management: Planning, Other, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research, Research: Habitat Requirements, Research: Habitat Status	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Costs to be determined
Bayou darter (Etheostoma rubrum)	3	21	Plan transplant effort	Unknown	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Other: Regulations, Research: Genetics, Research: Management Techniques, Research: Other Information, Research: Propagation, Research: Reintroduction	Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	

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Bayou darter (Etheostoma rubrum)	2	22	Assure full implementation of EPA pesticide labeling program in the watershed	Unknown	Prior to FY 1995		Environmental Protection Agency , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement, Mississippi Bureau of Pollution Control	Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Contract, Internal Administrative	Normal operations cost
Bayou darter (Etheostoma rubrum)	3	23	Publicity program for preservation of the Bayou Pierre system	Ongoing Current	FY 2011	FY 2013	USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Management: Land Use	Contract, Graduate Student, Internal Administrative, Volunteer	Normal operations cost
Bayou darter (Etheostoma rubrum)	2	3	Monitor distribution	Ongoing Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research: Other Information	Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Normal operations cost
Bayou darter (Etheostoma rubrum)	3	4	Sample microhabitats	Ongoing Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research: Habitat Requirements, Research: Habitat Status, Research: Other Information, Research: Population Surveys	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Bayou darter (Etheostoma rubrum)	3	5	Study movement and home range	Ongoing Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research: Competition, Research: Migration, Research: Other Information	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Bayou darter (Etheostoma rubrum)	2	6	Monitor water quality	Ongoing Not Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement, Mississippi Bureau of Pollution Control	Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research, Research: Environmental Contaminants, Research: General, Research: Other Information	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	Repeat every 5 years

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Bayou darter (Etheostoma rubrum)	2	7	Determine presence of toxins in watershed	Ongoing Not Current	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement, Mississippi Bureau of Pollution Control	Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research, Research: Environmental Contaminants, Research: General, Research: Other Information	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	
Bayou darter (Etheostoma rubrum)	2	8	Conduct food chain toxicity studies	Unknown	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research: Environmental Contaminants, Research: Other Information	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	
Bayou darter (Etheostoma rubrum)	2	9	Determine specific toxicants	Unknown	Prior to FY 1995		Mississippi Department of Wildlife, Fisheries and Parks , USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife enhancement	Research: Other Information	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	